Parameter Design Plan System and Tolerance Design Plan Data Reduction Design Plan **Experimental Design Strategies**

Module 1 - Introduction

ME3023 - Measurements in Mechanical Systems

Mechanical Engineering Tennessee Technological University

Topic 3 - Experimental Test Plan

Topic 3 - Experimental Test Plan

- Parameter Design Plan
- System and Tolerance Design Plan
- Data Reduction Design Plan
- Experimental Design Strategies

Parameter Design Plan

Parameter Design Plan: Determine the test objective and identify the process variables and parameters and a means for their control.

Ask:

Text: Theory and Design of Mech. Meas.

System and Tolerance Design Plan

System and Tolerance Design Plan: Select a measurement technique, equipment, and test procedure based on some preconceived tolerance limits for error.

Ask:

Text: Theory and Design of Mech. Meas.

Data Reduction Design Plan

Data Reduction Design Plan: Plan how to analyze, present, and use the anticipated data.

Ask:

Text: Theory and Design of Mech. Meas.

Experimental Design Strategies

Tests

and

Methods